Ref. No.: IPP-2.2

TECHNICAL SPECIFICATIONS OF 34MW GAS TURBINE PLANT

1. General

The gas turbine plant (herein after referred to as the Plant) was owned by Tohoku Electric Power Company and commissioned in the premises of Niigata Power Station of Tohoku Electric Power Company in Niigata, Japan in October 2011. Since then the Plant has been operated by Tohoku Electric Power Company until 2017. The total accumulated operation hours and ignition time of the Plant is around 650 hours. In 2018, the Plant was determined to be sold by Tohoku Electric Power Company and it was determined to be disassembled for export in the overseas in a form of scrap and build works. At present as of January 2019, the Plant has been already disassembled and stored at Niigata to be ready for exportation upon receiving order from the Purchaser.

2. Outline of the Plant

The Plant is composed of following main equipment of which outline of respective equipment is as follows:

A. Gas Turbine Unit

: 34 MW (Atmospheric temperature: -1°C) 1) Rated output power

2) Type of gas turbine : Open cycle gas turbine for continuous operation

: Siemens of Germany

 Type of gas turbine
 Manufacturer of gas turbine
 Model number of gas turbine : STG-700 5) Type of turbine : 3 stages 6) Combustion temperature : 1,260°C Class

7) Exhaust gas temperature : 568°C

8) Exhaust gas volume $: 335,000 \text{ m}^3\text{N/h}$ 9) Exhaust mass flow : 95.0kg/s

10) Electrical efficiency : 38.2%

11) Drive Shaft Speed : 3,250-6,500 rpm 12) Number of combustors : 10 combustors 13) Air compressor : 17 stages 14) Type of fuel : City gas (LNG)

B. Power Generator

1) Manufacturer of power generator : Siemens

2) Type of power generator : Horizontal shaft tubular type rotating excitation

field three phase current synchronous generator

SGen5-100A-2P 080-20

3) Number of phase and poles : 3 phases, 2 poles : 11.5 kV, 50Hz 4) Rated output at terminal

5) Rated current : 1,897 A

C. Main Transformer

1) Manufacturer of main transformer : Hitachi

2) Number of winding : 2 3) Number of phases : 3 4) Frequency : 50Hz 5) Capacity : 38MVA
6) Cooling method : ONAN

7) Voltage (high tension side) : F161kV-F157, 5kV-R154kV-F150, 5kV-F147kV

8) Voltage (low tension side) : 11.2kV

9) Short-circuit impedance : 11% (38MVA base) 10) Standards : JEC-2200-1995

D. Auxiliary Transformer

1) Manufacturer of main transformer : Hitachi

2) Number of winding : 2
3) Number of phases : 3
4) Frequency : 50Hz
5) Capacity : 3MVA
6) Cooling method : ONAN

7) Voltage (high tension side) : F11.8kV-F11, 5kV-R11, 2kV-F10.9kV-F10.6kV

8) Voltage (low tension side) : 6.9kV

9) Short-circuit impedance : 5% (3MVA base) 10) Standards : JEC-2200-1995

E. Auxiliary Transformer for Drivers (GT460V Motor Control Center)

1) Manufacturer of main transformer : Hitachi

2) Number of winding : 2
3) Number of phases : 3
4) Frequency : 50Hz
5) Capacity : 800kVA
6) Cooling method : ONAN

7) Voltage (high tension side) : F7.2kV-F7.05kV-R6.9kV-F6.6kV

8) Voltage (low tension side) : 460V

9) Short-circuit impedance : 6% (800kVA base) 10) Standards : JEC-2200-1995

F. Power Back-up System by DC Batteries

The power back-up system by DC batteries for the Plant is designed only for 30 minutes. If the power blackout continues more than 30 minutes due to an extraordinary condition, 154kV crossing gate cannot be operated properly. As the batteries are of lead-acid type these cannot be exported from Japan to abroad therefore new batteries meeting with the requirement shall be supplied. Taking into consideration of local conditions and independent operation of the Plant the DC battery backup system shall be redesigned and

new batteries are to be supplied. The technical specifications of the power backup system by DC batteries are as follow:

Item		Specification	Remarks
Battery	Capacity	400Ah/10h	Continued power supply for the equipment to ensure a continuous operation of the plant even under main power cut or blackout occur.
	Number of Cell	49 cells	2.23V/ cell
	Discharge time	30 minutes	
	Type	Lead-acid battery	MSE Type
	Minimum temp.	5°C	
	Minimum voltage	1.8V/cell	
Charger	Capacity	250A x 1 unit	
	Power input	AC440V	

G. Distribution and Control Panels

General:

(1) Applied Standards

The technical standards applied are one of the following standards: IEC, ANSI/IEEE, JIS/JEC, JEM

(2) Temperature Conditions

Temperature range for indoor use is $-6 \sim 40^{\circ}$ C and for outdoor use -13 $\sim 40^{\circ}$ C.

(3) Power Sources

Below table shows the standards of power sources by usage.

NO	Usage	Frequency	Number of	Voltage	Terminal
			Phases		Voltage
1	AC Control	50Hz	1 ф	105V	100V
2	DC Control	DC	-	110V	100V
3	Measuring instrument	50Hz	1 ф	105V	100V
4	Control center lighting	50Hz	1 ф	105V	100V
5	Machine associated lighting (I)	50Hz	1 ф	105V	100V
	Machine associated lighting (II)	50Hz	1 ф	210V	200V
6	Space heater in actuator for power driven valve	50Hz	1 ф	105V	100V
7	Space heater	50Hz	1 ф	210V	200V
		50Hz	3 ф	210V	200V
		50Hz	1 ф	105V	100V
8	Anti-freezing	50Hz	1 ф	210V	200V
		50Hz	Single phase 3 wires	105V	100V
9	For works	50Hz	3 ф	210V	200V
		50Hz	1 φ	105V	100V

(4) Voltage Fluctuation

Acceptable voltage fluctuation.

a) AC (control): -10~+10%

b) DC (control): -10~+10%

(5) Frequency Fluctuation

a) AC (control): 47.5~51.5Hz (-5~+3%)

(6) Coloring of Conductor / Equipment

Below table shows the color code of conductor / equipment.

Circuit	Phase and Polarity	Color	Remark
3 phase AC	R-phase	Red	
	S-phase	White	
	T-phase	Blue	
	Neutral or Zero	Black	
Single phase AC	First phase	Red	
	Second phase	Blue	
	Natural phase	Black	Single phase 3 wires
DC	Positive Electrode	Red	
	Negative Electrode	Blue	

(7) Coloring of Cable

Below table shows the coloring code of cables.

Circuit	Color
Secondary circuit of instrument voltage transformer	Yellow
Secondary circuit of instrument current transformer	Yellow
Direct current circuit	Yellow
Alternate current circuit	Yellow
Earth grounding circuit	Green
Sealed circuit	Grey
Motor circuit	Yellow or Black

(8) Other equipment

The technical details of gas turbine unit and power generator are to be referred to Appendix-1 Technical Specifications described in a set of As-built Drawing prepared on 23rd January 2012.

3. Major Equipment and Sub-systems

The equipment composing the Plant are not limited to but followings in complete form as erected in the previous location at Niigata Power Station of Tohoku Electric Power Company. The Plant composes equipment, unit and system designed and supplied briefly by two engineering firms such as Siemens and Hitachi. The portion of equipment, unit and system supplied by respective firms are as follows:

(A) Siemens's Supply Portion

- 1) Gas turbine unit
- 2) Power generation unit
- 3) Gas fuel supply system
- 4) Compressed air system
- 5) Air filter
- 6) Air inlet duct
- 7) Air exhaust diffuser
- 8) Frequency static starter
- 9) Power controller
- 10) Packaged Electrical and Electronic Control Compartment
- 11) Converter cubicles
- 12) Battery container
- 13) Motor Control Center
- 14) Fire distinguishing system

(B) Hitachi Supplies Portion

- 1) Main transformer
- 2) Auxiliary transformer
- 3) Circuit breaker
- 4) Low voltage power panel
- 5) Contactor
- 6) Metalclad
- 7) Control center
- 8) Control air compressor
- 9) Fuel gas compression system
- 10) Cooling water circulation system
- 11) Water discharge system
- 12) Pipes, valves and wires
- 13) Tools for testing
- 14) Consumable parts

4. Technical Descriptions of Gas Turbine Power Generator

The technical description of the gas turbine power generator is as outlined below:

4.1 Main System Description

A Gas Turbine Generator Unit is composed of a Gas Turbine with a single shaft that drives a Generator via a speed reducing gear to produce 3 phase, 50 Hz power. The output rate is about 34 MW. It varies with air inlet conditions. The primary fuel that is used is gas fuel.

4.1.1 Gas Turbine

The major features of the Siemens Model STG-700 gas turbine is the following:

- i. The compressor is a 17 stages axial flow design with modulating inlet guide vanes and a pressure ratio of 18.7:1. Inter-stage extraction is used for cooling and sealing air (turbine nozzles, wheel-space and bearing) and for surge control during start-up.
- ii. The combustion system is composed of 10 chambers MNQC type reducing the NOx quality.
- iii. The turbine section has three stages with air cooling on all three nozzle stages and the first and second bucket stages. The rotor is a single shaft, two bearings design with high torque capability incorporating internal air cooling for the turbine section. The direction of shaft rotation is counter-clockwise when facing the gas turbine output flange. The load gear reverses the direction of rotation as it turns the generator rotor.
- iv. The axial flow compressor rotor and the turbine rotor are assembled by flange and are supported by 2 bearings.

In the Gas Turbine combustion chambers an air-fuel mixture is burnt to convert the chemical energy in the fuel to thermal energy, which is then converted into mechanical energy to turn the Generator and compressor. To start-up the Gas Turbine, the starting device (Static Frequency Converter - SFC) feeds the generator at variable frequency, at reduced voltage and at reduced field, the generator works as synchronous motor until the set had reached a sufficient speed for the gas turbine to operate autonomously. At 2,400 rpm, the gas turbine is self-driven in order to continue acceleration. The SFC is then disconnected from generator.

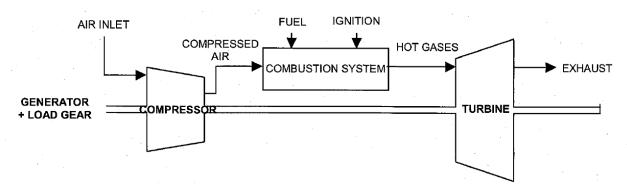
When the shaft line turns, air passes through an air filter, ducts and an air inlet silencer and enters into the axial flow compressor. At the compressor outlet, air passes through flow sleeves and enters a combustion chambers in a controlled manner. Here it is mixed with gas fuel coming through a fuel nozzle assembly. Spark plugs ignite the mixture in two of the combustors, which in turn cross fire to all 6 combustors. The hot mixture of gases from the combustion chambers flows through a transitions places which connects the end

of combustion chamber to the first stage nozzle. In the first stage nozzle the pressure falls, and the gasses are expanded (and thereby accelerated) into the first stage turbine. In the frame STG-700 there are 3 stages in the turbine section. The rise in temperature across the combustors and the additional mass of the fuel increases the mass and volume of the exhaust flow.

As more fuel is injected into the air flow, the higher the temperature and the greater the volume/mass change. The increased gas volume passing through the turbine raises the backpressure and therefore the pressure at the compressor discharge and in the combustors. As the temperature and pressure at the inlet to the turbine nozzle rise the gasses expanding through the nozzle are accelerated to a higher velocity. The higher the entry velocity the more energy is extracted from the gasses by the turbine bucket which is travelling at a fixed velocity and the more power is produced.

The output of the turbine is therefore proportional to the fuel input assuming a constant air supply flow. In the turbine section, each stage is composed of a range of stator blades (nozzles) followed by a range of rotor blades (buckets) mounted on the turning shaft. In each stage of stator blades (nozzles), the gas is expanded into the following range of rotor blades and part of the kinetic energy thus created is converted into mechanical works in the rotor.

The greater mass flow/pressure drop through the turbine the greater the output. After going through all 3 turbines stages, the exhaust gases pass through an exhaust frame and exit the turbine very slightly above atmospheric pressure since they now through an HRSG or by pass stack to atmosphere. The Gas Turbine is installed in an acoustic enclosure to reduce noise emission. The enclosure also ensures the correct ventilation and cooling of the areas around the Gas Turbine.



5. Conversion of Fuel System

The fuel used for the operation of gas turbine unit operated by Tohoku Electric Power Company in Niigata has been a city gas converted from LNG imported from abroad and its fuel system is of single fuel system. The major fuel determined to be used is a recycled

oil from waste plastics of which character is similar or equivalent to diesel fuel approved by local oil company in Bulgaria. Therefore, the fuel system is needed to be converted for dual use of natural gas and such liquid fuel. The fuel system shall be converted from single fuel supply system to dual fuel supply system so as to be operated the gas turbine power generation unit either by natural gas or by liquid fuel. The major fuel to be used is determined to be liquid fuel (recycled and refined oil produced through pyrolysis waste plastics oil recycling plant furnished beside the location of gas turbine power generation plant. The design of conversion of the fuel supply system as such shall be undertaken by Siemens.

6. Conversion of Simple-cycle Gas Turbine to Combined-cycle Gas Turbine

The gas turbine unit dismantled in Japan and exported to the project site is of Simple Open-cycle Gas Turbine type of Siemens Model STG-700. This simple-cycle gas turbine power generator shall be converted to a combined-cycle gas turbine power generator by furnishing a heat recovery system for generation of steam and a steam turbine that is driven by the steam thereby increase the power output to 40-45 MW. The rated output power of this Combined-cycle Gas Turbine power plant shall be determined after examination and design for combining gas turbine power plant and steam turbine power plant.

7. Operation Manuals

The manuals for various equipment, components, apparatuses, etc. are to be supplied prior to the commencement of installation works of the Equipment.

8. General Arrangement and One Line Diagram

The general arrangement of this gas turbine power plant as existed at the power station in Niigata and the one-line diagram of power system is as shown in attached drawings of Appendix-1.

9. List of Major Equipment to be Supplied

The list of major equipment composing the 34MW gas turbine power generating plant is as shown in Appendix-2.

Appendix-1

Major Components and General Arrangement of No.6 34MW Gas Turbine Plant as Existed in Niigata, Japan

No.6 Gas Turbine Power Generation Plant - General information

Components of No.6 Gas Turbine Power Generator

Gas Turbine Part

- 1 Gas Turbine
- 2 Air pressure machine
- 3 Combustor
- 4 Generator
- 5 Fuel supply system
- 6 Water injection system
- 7 Initiator
- 8 Air intake and exhaust system
- 9 Fan
- 10 Lubricating system
- 11 Contorl oil system
- 12 Air compressor
- 13 Nitrogen supply system
- 14 Effluent treatment system
- 15 Central control room

Contorl Room

- 1 Remote operation station
- 2 Control compartment (1)
- 3 Control compartment (2)

External Part

- 1 Power generator
- 2 Composite gas insulated switching device
- 3 Transformer breaker
- 4 154kV master busbar grounding switch
- 5 Main transformer
- 6 Auxiliary transformer
- 7 GT460V transformer for motor control center
- 8 ACB receiving panel

Fuel Gas Compressor Compartment

- 1 Fuel gas compressor control panel
- 2 Distingusing CO2 control panel

Transformer Control Panel

1 GT210V-105V power distribution panel

List of Major Equipment Composing the Plant

機械名称一覧表(機械) Machinery Name List (Machinery)

PPE-11-0574(添付1)

1 2 3 4 5 6 7 8	ガスタービン関係 ガスタービン ガスタービン車室	2	Gas	Turbine Unit				,
3 4 5 6 7 8		2						
4 5 6 7 8				Gas Turbine	GT	GT設	GT Facility	
5 6 7 8		3		Gas Turbine Unit Room		GT設	GT Facility	
6 7 8	ガスタービン円板	4		Gas Turbine Disk Gas Turbine Cross-plate		GT設	GT Facility GT Facility	
7 8	ガスタービン隔板 ガスタービン静翼	5 6		Gas Turbine Cross-plate Gas Turbine Static Blade		GT設 GT設	GT Facility GT Facility	
8	ガスタービン耐翼	7		Gas Turbine Static Blade Gas Turbine Rotor Blade		GT設	GT Facility GT Facility	
	ガスターピン重軸	8		Gas Turbine Rolor Blade Gas Turbine Axle		GT設	GT Facility	
	GT前側排気室	9		GT Front Exhaust Room		GT設	GT Facility	
10	GT後側排気室	10		GT After Exhaust Room		GT設	GT Facility	
11	GTターニングクラッチ	11		GT Turning Clutch		GT設	GT Facility	-
12	GT空気圧縮機入口ケーシング	12		GT Air Compressor Entrance Casing		GT設	GT Facility	
13	ロードコンパートメント	13		Load Compartment		GT設	GT Facility	
14	GTコンパートメント	14		GT Compartment		GT設	GT Facility	
15	第1軸受	15		Primary Axle Bearing	No.1Brg	GT設	GT Facility	
16	GT空気圧縮機	16		GT Air Compressor		GT設	GT Facility	
17	GT空気圧縮機入口車室	17		GT Air Compressor Entrance Room		GT設	GT Facility	
18	GT空気圧縮機出口車室	18		GT Air Compressor Exit Room		GT設	GT Facility	
19	GT空気圧縮機入口案内翼	19		GT Air Compressor Guiding Blade	IGV	GT設	GT Facility	
20	GT空気圧縮機静翼	20		GT Air Compressor Static Blade		GT設	GT Facility	
21	GT空気圧縮機動翼	21	Ш	GT Air Compressor Rotor Blade		GT設	GT Facility	
22	GT空気圧縮機車軸	22		GT Air Compressor Axle		GT設	GT Facility	
23	第2軸受	23	Ш	Secondary Axle Bearing	No.2Brg	GT設	GT Facility	
24	調速装置	24		Speed Adjuster		GT設	GT Facility	
25	非常調速装置	25	Ш	Emergency Speed Adjuster		GT設	GT Facility	
26	後備非常調速装置	26	<u> </u>	Emergency Governor for Speed Change		GT設	GT Facility	
27	GTエンクロジャ	27	Ш	GT Enclosure		GT設	GT Facility	
28	GTターニング装置	28		GT Turning Device		GT設	GT Facility	
29	GTターニング装置モータ	29		GT Tuning Motor		GT設	GT Facility	
30	スラスト軸受	30		Thrust Axle		GT設	GT Facility	
31	中間軸	31		Intermediate Axle		GT設	GT Facility	
32	ガスタービン減速機	32		Gas Turbine Speed Reducer		GT設	GT Facility	
33		33						
34	m = F (c)	34		D		0.7.7	07.5	
	空気圧縮機抽気系統		Air (Compressor Bleeding System		GT設	GT Facility	
36 37	GT空気圧縮機第6段抽気管	36		GT Air Compressor 6 Stage Bleed Pipe		GT設	GT Facility	
38	GT空気圧縮機第6段ブリード弁	37 38		GT Air Compressor 6 Stage Bleed Valve		GT設	GT Facility	
39	GT空気圧縮機第13段抽気管			GT Air Compressor 13 Stage Bleed Pipe GT Air Compressor 13 Stage Bleed Valve		GT設	GT Facility	
40	GT空気圧縮機第13段ブリード弁	39 40		GT Air Compressor 13 Stage Bleed Valve		GT設 GT設	GT Facility GT Facility	
41	GT空気圧縮機プリード弁	41		GT All Compressor bleed valve		U i i i i	GIFACILLY	
42		42						
	燃焼計装置		Con	nbustion State Measuring Apparatus				
44	燃料ガスコンパートメント	44		Fuel Gas Compartment		GT設	GT Facility	
45	燃料ガス遮断弁	45		Fuel Gas Shut-off Valve	SRV	GT設	GT Facility	
46	燃料ガスベント弁	46		Fuel Gas Bent Valve	VA13-15	GT設	GT Facility	
47	燃料ガス流量調節弁	47		Fuel Gas Flow Volume Adjust Valve	GCV	GT設	GT Facility	
48	燃料ガスマニホールド	48		Fuel Gas Manifold		GT設	GT Facility	
49	燃焼器	49	М	Combustor		GT設	GT Facility	
50	///// HI	50	\vdash			∵ . DX	a dointy	
	発電機関係		Pow	ver Generation System				
52	空気冷却器	52		Air Cooling Apparatus		GT設	GT Facility	
53	第3軸受	53		Third Axle Bearing	No.3Brg	GT設	GT Facility	
54	第4軸受	54	П	Fourth Axle Bearing	No.4Brg	GT設	GT Facility	
55	212 - 1102-2	55		g		W . IIX	21.140	
56		56						
57 /	燃料関係		Fue	System				
58	燃料ガス管	58	ΙŌ	Fuel Gas Pipe		GR設、火プ設	GT Facility/Fire	
59	燃料ガス受入遮断弁	59		Fuel Gas Receiving Shut-off Valve		火EP	GT Facility	
60	燃料ガス圧縮機	60		Fuel Gas Compressor		GT設	GT Facility	
61	燃料ガス圧縮機モータ	61		Fuel Gas Compressing Motor		GT設	GT Facility	
62	燃料ガス流量計	62		Fuel Gas Flow Volume Meter		GT設	GT Facility	
63	燃料ガス圧縮機主油ポンプ	63	П	Fuel Bas Compressor Main Oil Pump		GT設	GT Facility	
64	燃料ガス圧縮機油補給プンプ	64		Fuel Gas Compressor Auxiliary Oil Pump		GT設	GT Facility	
65	燃料ガス圧縮機油補給ポンプモータ	65		Fuel Gas Compressor Auxiliary Oil Pump Motor		GT設	GT Facility	
66	燃料ガス圧縮機油温度調節弁	66		Fuel Gas Compressor Temperature Adjustment Valve		GT設	GT Facility	
67	燃料ガス圧縮機油供給タンク	67		Fuel Gas Compressor Oil Supply Tank		GT設	GT Facility	
68	燃料ガス圧縮機エンクロージャ	68		Fuel Gas Compressor Enclosure		GT設	GT Facility	
69	燃料ガス圧縮機油ストレーナ	69		Fuel Gas Compressor Oil Strainer		GT設	GT Facility	
70	燃料ガス圧縮機リサイクル弁	70		Fuel Gas Compressor Recycle Valve		GT設	GT Facility	

機械名称一覧表(機械) Machinery Name List (Machinery)

PPE-11-0574(添付1)

NO								
_	機器名称	No	F1 (Machinery	略称/Code	手配元	Arrangement	備考/Remarks
	燃料関係(つづき)	71	Fuel	System (Continued)				COMPRESSOR
72	燃料ガス圧縮機バイパス弁	72		Fuel Gas Compressor By-pass Vale		GT設	GT Facility	BYPASS VALVE
73	燃料ガス圧縮機出口ガス温度調節ルーパ	73		Fuel Gas Compressor Existing Gas Temperature		GT設	GT Facility	AUTO LOUVER
	がパイプハム上側が入口口のパースの回りが、、	70		Adjustment Louver		O I EX	a r r dointy	CONTROL
74	燃料ガス圧縮機ガスクーラ	74		Fuel Gas Compressor Gas Cooler		GT設	GT Facility	1ST STAGE AFTER COOLER
								COMPRESSOR
75	燃料ガス圧縮機入口遮断弁	75		Fuel Gas Compressor Entrance Valve		GT設	GT Facility	SUCTION VALVE
76	燃料ガス圧縮機燃料ガス入口スクラバ	76		Fuel Gas Compressor Fuel Gas Entrance Scrubber		GT設	GT Facility	1ST STAGE
_				·			-	SUCTION SCRUBBER 1ST STAGE
77	燃料ガス圧縮機入口スナッパ	77		Fuel Gas Compressor Fuel Gas Entrance Snapper		GT設	GT Facility	SUCTION BOTTLE
70	140 May 129 - 7 (42-140 M 1 0 0	70		5 10 5 10 5 10		O.T. III.	OT 5 - 10 -	1ST STAGE
78	燃料ガス圧縮機出口スナッパ	78		el Gas Compressor Fuel Gas Exit Snapper		GT設	GT Facility	DISCHARGE BOTTLE
79	燃料ガス圧縮機出口コアレッサーフィルタ	79		Fuel Gas Compressor Exit Compressor Filter		GT設	GT Facility	COALESCER FILTER
80	燃料ガス圧縮機出口遮断弁	80		Fuel Gas Compressor Fuel Gas Exit Shut-off Valve		GT設	GT Facility	COMPRESSOR DISCHARGE VALVE
81	燃料ガス圧縮機大気放出弁	81		Fuel Gas Compressor Blow-off Valve		GT設	GT Facility	BLOWDOWN VALVE
82	燃料ガス圧縮機廃油タンク	82		Fuel Gas Compressor Waste Oil Tank		GT設	GT Facility	BESTIDOTH THETE
83		83						
84		84						
85	水噴射関係	85	Wate	r Spray System			07.5	
86	水噴射移送配管	86		Water Jet Transportation Pluming		GT設、火プ設	GT Facility/ Fire Protection	
87	GT水噴射移送ポンプ	87		GT Water Jet Transport Pump		GT設	GT Facility	
88	GT水噴射移送ポンプモータ	88		GT Water Jet Transport Pump Motor		GT設	GT Facility	
89	GT水噴射ポンプ	89		GT Water Jet Pump		GT設	GT Facility	
90	GT水噴射ポンプモータ	90		GT Water Jet Pump Motor		GT設	GT Facility	
91	水噴射流量計	91		Water Jet Flow Volume Meter		GT設	GT Facility	
92 93	水噴射遮断弁 水噴射流量遮断弁	92		Water Jet Flow Shut-off Valve Water Jet Flow Volume Shut-off Valve		GT設 GT設	GT Facility GT Facility	
94	水噴射マニホールド	94		Water Jet Manifold		GT設	GT Facility	
95	70 (A) (- 70 / 70)	95		Trace of mainor		G I BX	ar ruomty	
96		96						
	起動装置	97	Starte	er				
98	GT起動モータ	98		GT Starting Motor		GT設	GT Facility	
99	トルクコンバータ	99		Torque Convertor		GT設	GT Facility	
100	GT起動クラッチ	100		GT Starting Clutch		GT設	GT Facility	
102		102						
_	吸排気設備	103	Air In	take - Exhaust System				
104	吸気室	104		Air Intake Chamber		GT設	GT Facility	
105	吸気フィルタ室	105		Air Intake Filter Chamber		GT設	GT Facility	
106	吸気フィルタ	106		Air Intake Filter		GT設	GT Facility	
107 108	吸気サイレンサ 吸気ダクト	107		Air Intake Silencer Air Intake Duct		GT設 GT設	GT Facility GT Facility	
109	吸気プレナム	109		Air Intake Plenum		GT設	GT Facility	
110	ウェザールーバ	110		Weather Louver		GT設	GT Facility	
111	トラッシュクリーン	111		Trach Clean		GT設	GT Facility	
112	第1段 吸気フィルタ(プレフィルタ)	112		Primary Air Intake Filter (Pre-filter)		GT設	GT Facility	
113	第2段 吸気フィルタ(高性能フィルタ)	113		Secondary Air Intake Filter (High Performance Filter)		GT設	GT Facility	
114 115	第3段 吸気フィルタ(超高性能フィルタ) 排気エキスパンションジョイント	114		Third Air Intake Filter (Ultra High Performance Filter) Exhaust Gas Expansion Joint		GT設 GT設	GT Facility GT Facility	
116	排気ディフューザ	116		Exhaust Gas Defuser		GT設	GT Facility	
117	排気ダクト	117		Exhaust Gas Duct		GT設	GT Facility	
118	排気サイレン	118		Exhaust Gas Silencer		GT設	GT Facility	
119	煙突	119		Chimney		火建設	Fire Construction	
120		120						
121	ファン関係	121	Fans					
123	第1軸受冷却ファン	123	, and	Primary Axle Bearing Cooling Fan		GT設	GT Facility	
124	第1軸受冷却ファンモータ	124		Primary Axle Bearing Cooling Fan Motor		GT設	GT Facility	
125	第1軸受冷却ダクト	125		Primary Axle Bearing Cooling Duct		GT設	GT Facility	
126	GTエンクロージャ換気ファン	126		GT Enclosure Ventilation Fan		GT設	GT Facility	
127	GTエンクロージャ換気ファンモータ	127		GT Enclosure Ventilation Fan Motor		GT設	GT Facility	
128	GTエンクロージャ換気ダクト	128		GT Enclosure Ventilation Duct		GT設	GT Facility	
129 130	燃料ガス圧縮機エンクロージャ換気ファン 燃料ガス圧縮機エンクロージャ換気ファンモータ	129		Fuel Gas Compressor Enclosure Ventilation Fan Fuel Gas Compressor Enclosure Ventilation Fan Motor		GT設 GT設	GT Facility GT Facility	
131	燃料ガス圧縮機エングローシャ模式ファンモータ 燃料ガス圧縮機ガスクーファン	131		Fuel Gas Compressor Gas Cooler Fan		GT設	GT Facility GT Facility	
132	燃料ガス圧縮機ガスクーラファンモータ	132		Fuel Gas Compressor Gas Cooler Fan Motor		GT設	GT Facility	
133		133						
100		134	. —					

(機械2/3) (Machinery 2/3)

機械名称一覽表(機械) Machinery Name List (Machinery)

PPE-11-0574(添付1)

	地里々が	NO	1	Machinany	mb = (- TI-	A	## /D
NO 135	機器名称	NO 135	Lubric	Machinery ation System	略称/Code	手配元	Arrangement	備考/Remarks
136	主油冷却器	136	Lubiic	Main Lub Oil Cooler				
137	主油タンク	137		Main Lub Oil Tank		GT設	GT Facility	
138	主油タンクガス抽出機	138		Main Tank Gas Extraction Appratus		GT設	GT Facility	
139	主油タンクガス抽出機モータ	139		Main Tank Gas Extraction Motor		GT設	GT Facility	
140	ミストセパレータ	140		Mist Separator		GT設	GT Facility	
141	主油ポンプ	141		Main Lub Oil Pump	MOP	GT設	GT Facility	
142	主油ポンプモータ	142		Main Lub Oil Pump Motor		GT設	GT Facility	
143	非常用油ポンプ	143		Emergency Lub Oil Pump	EOP	GT設	GT Facility	
144	非常用油ポンプモータ	144		Emergency Lub Oil Pump Motor		GT設	GT Facility	
145	潤滑油フィルタ	145		Lub Oil Filter		GT設	GT Facility	
146	潤滑油温度調節弁	146		Lub Oil Temperature Adjustment Valve		GT設	GT Facility	
147	主油タンクヒータ	147		Main Lub Oil Tank Heater		GT設	GT Facility	
148	潤滑油圧力弁調節弁	148		Lub Oil Pressure Adjustiment Valve Lub Oil Transfer Pump		GT設	GT Facility	
150	潤滑油移送ポンプ	150		Lub Oil Transfer Purip		GT設	GT Facility	
151		151						
	制御油装置	152	Contr	l ol Oil System				
153	制御油装置	153	COTAL	Control Oil Appratus		GT設	GT Facility	
154	制御油ポンプ	154		Control Oil Pump		GT設	GT Facility	
155	制御油ポンプモータ	155		Control Oil Pump Motor		GT設	GT Facility	
156	制御油フィルタ	156		Control Oil Filter		GT設	GT Facility	
157	制御油アキュムレータ	157		Control Oil Accumulator		GT設	GT Facility	
158		158						
159		159						
160	冷却水関係	160	Coolir	g Water System				
161	冷却水管	161		Cooling Water Pipes		GT設、火プ設	GT Facility/	
101	/ / / / / / / / / / / / / / / / / / /	101		Cooling Water Fipes		UI設、大ノ設	Fire Facility	
162	冷却水ポンプ	162		Cooling Water Valves		GT設	GT Facility	
163	冷却水ポンプモータ	163		Cooling Water Pump Motor		GT設	GT Facility	
164	ラジエータ	164		Radiator		GT設	GT Facility	
165	ラジエータファン	165		Radiator Fan		GT設	GT Facility	
166	ラジエータファンモータ	166		Radiator Fan Motor		GT設	GT Facility	
167	冷却水へッドタンク	167		Cooling Water Headtank		GT設	GT Facility	
168	冷却水ヘッドタンク補給水弁	168		Cooling Water Headtank Water Supply Pump		GT設	GT Facility	
169		169 170						
	空気圧縮機	171	Air Co	pmpressor				
172	空気圧縮機	172	7 111 00	Air Compressor		GT設	GT Facility	
173	空気圧縮機モータ	173		Air Compressor Motor		GT設	GT Facility	
174	アフターフィルタ	174		After Filter		GT設	GT Facility	
175	空気だめ	175		Air Reservour		GT設	GT Facility	
176	制御用空気除湿器	176		Control Air Dehumidifier		GT設	GT Facility	
177		177						
178		178						
179	窒素供給装置	179	Nitrog	en Gas Supply System				
180	窒素ガスボンベ	180		Nitrogen Gas Cylinders				
181	窒素ガス減圧装置	181		Nitrogen Gas Pressure Reducer				
182		182						
	排水処理関係	183	Wast	Water Treatment System		an 1 m	D 5	
184	非常排水ます	184	-	Emergency Waste Water Catch Basin		電力殿	Power Facility	
185 186		185 186	<u> </u>					
	和答演 終ビルト関係	186	Dlumb	ing Communication Pit Related				
-	配管連絡ピット関係	188	riumi	Fuel Gas Districution Connection Pit		電力殿	Power Facility	
1100	機能 ガラ配管:直紋ピルト	100	1	i uci Cas Districution Connection Pit	1	电刀取	i ower Facility	
188	燃料ガス配管連絡ピット	_						1
189	燃料ガス配管連絡ピット	189						
189 190	燃料ガス配管連絡ビット	189 190						
189 190 191	燃料ガス配管連絡ビット	189 190 191						
189 190 191 192	燃料ガス配管連絡ビット	189 190 191 192						
189 190 191	燃料ガス配管連絡ビット	189 190 191						
189 190 191 192 193	燃料ガス配管連絡ビット	189 190 191 192 193						
189 190 191 192 193 194	燃料ガス配管連絡ビット	189 190 191 192 193 194						
189 190 191 192 193 194 195	燃料ガス配管連絡ビット	189 190 191 192 193 194 195						
189 190 191 192 193 194 195	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196						
189 190 191 192 193 194 195 196	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197						
189 190 191 192 193 194 195 196 197	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197						
189 190 191 192 193 194 195 196 197 198 199	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197 198						
189 190 191 192 193 194 195 196 197 198 199 200 201 202	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197 198 199 200 201 202						
189 190 191 192 193 194 195 196 197 198 199 200 201 202 203	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197 198 199 200 201 202 203						
189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204						
189 190 191 192 193 194 195 196 197 198 199 200 201 202 203	燃料ガス配管連絡ビット	189 190 191 192 193 194 195 196 197 198 199 200 201 202 203						

(機械3/3)(Machinery 3/3)

機械名称一覽表(電気·計装) Machinery List (Power and Control Facilities)

PPE-11-0574(添付2)

NO	機器名称	NO		Machinery Name	略称/Code	手配元	Arrangement
1	既設中央操作室	1	Ce	entral Control Room			
2	6号リモートオペレータステーション	2	4	Remote Operator Station	R-HMI-6	発電設	Power Facility
3	6号リモートプリンタ	3	-	Remoter Printer		発電設	Power Facility
5	コントロールコンパートメント(1)	<u>4</u> 5	Co	Dontrol Compartment (1)	CMP-1-6	発電設 発電設	Power Facility Power Facility
6	6号ローカルオペレータステーション	6	CU	Local Operator Station	CIVIF-1-0	発電設	Power Facility
7	6号ローカルプリンタ	7	t	Local Printer	L-HMI-6	発電設	Power Facility
8	6号ガスタービン制御装置盤	8		Gas Turbine Control Panel	TCP-6	発電設	Power Facility
9	6号発電機励磁装置盤	9		Gas Turbine Exciter Control Panel	EXP-6	発電設	Power Facility
10	6号発電機保護継電装置盤	10		Power Generator Protection Relay Control Panel	GPP-6	発電設	Power Facility
11	6号主変圧器·所内変圧器保護継電装置盤	11		Main Transformer/Auxiliary Transformer Protection Relay Panel	TPP-6	発電設	Power Facility
12	6号GT460Vモータコントロールセンタ	12		GT 460V Motor Control Center	CC·4-9	発電設	Power Facility
13		13					Power Facility
14	コントロールコンパートメント(2)	14	Со	ontrol Compartment (2)	CMP-2-6	発電設	Power Facility
15	6号重電機盤	15		Heavy Electric Control Panel	CHG-6	発電設	Power Facility
16	6号蓄電池	16		Battery	BATT-6	発電設	Power Facility
17	6号GT110V直流コントロールセンタ&直流分電盤	17		GT110V DC Control Center	DC MCC/DB-6	発電設	Power Facility
18	6号アレスタ盤	18		Arrester Panel	ARR-6	発電設	Power Facility
19	6号GT210V-105V分電盤	19		GT210V-105V Power Distribution Panel	DB · 2-6	発電設	Power Facility
20		20	<u> </u>				
21		21	_	1	-		
22	屋外	22	Οι	utdoor		0.7.1	OT 5
23	発電機	23	-	Power Generator	Gen-6	GT企	GT Facility
24 25	6号複合形ガス絶縁開閉装置	24 25	\vdash	Compound Gas Insulation Switching Device	H-GIS	火EP(電制)	Fire Protection
26	6号主変圧器用遮断器	26	-	Main Transformer Crossing Gate	O16	火EP(電制) 火EP(電制)	Fire Protection
27	6号154kV母線側設置開閉器	27		154kV Bus Side Switch	89E2	火EP(電制)	Fire Protection
28	6号主変圧器側接地開閉器	28	-	Main Transformer Side Earthing Switch	89E1	火EP(電制)	Fire Protection
29	0.9 EXECUTION 100	29		main manorino dae zaming emion)(L) (LE (1))	Fire Protection
30	6号主変圧器	30		Main Transformer	MT-6	火EP(電制)	Fire Protection
31	6号所内変圧器	31		Auxiliary Transformer	HT-6	火EP(電制)	Fire Protection
32	6号メタクラ	32		Metica	MCS·6-6	火EP(電制)	Fire Protection
33	6号GT460Vモータコントロールセンタ用動力変圧器	33		GT 460V Motor Control Center Power Transformer	AUT-6	火EP(電制)	Fire Protection
34 35	6号GT460VモータコントロールセンタACB受電盤	34 35		GT 460V Motor Control Center ACB Receiving Panel	I-ACB	火EP(電制)	Fire Protection
36	6号発電機主回路盤	36		Power Generator Main Circuit Board	GAC	火EP(電制)	Fire Protection
37		37					
38		38					
39	6号燃料ガス圧縮機制御盤コンパートメント	39	Ga	as Fuel Compressor Control Compartment		GT設	GT Facility
40	6号燃料ガス圧縮機制御盤	40		Gas Fuel Compressor Control Panel		GT設	GT Facility
41		41					
42	a Till a a a William a Linguista a Linguis	42					
43	6号CO2消火設備制御パネル	43		CO2 Fire Protection Facility Control Panel	CFP-6	GT設	GT Facility
44		44	-		 		
45	6号CT210V/ 105V/入零般用亦工明報	45 46	Tre	ansformer for GT 210V-105V Power Distribution Board	DRTD.26	2x em =n	Power Facility
46 47	6号GT210V-105V分電盤用変圧器盤	46	113	ansionner for G1 Z109-1059 FOWER DISTRIBUTION BOARD	DBTR·2-6	発電設	rower Facility
48		47	H		<u> </u>		
49	現場操作箱	49	H	Field Control Box	L-BOX-6	発電設	Power Facility
50		50	H		1 1 1		
-	ガスタービン設備	51	Ga	as Turbine Facility			
52	現場圧力計・温度計・レベル	52	Г	Field Pressure Gauge, Thermometer, Level Meter			
53	6号制御用空気圧縮機エアータンク圧力	53		Air Tank Pressure Gauge for Control Air Compressor		GT設	GT Facility
54	6号窒素ガス減圧装置一次側圧力計	54		Primary Pressure Gauge for Nitrogen Gas Pressure Reducer		GT設	GT Facility
55	6号窒素ガス減圧装置二次側圧力計	55	Γ	Secondary Pressure Gauge for Nitrogen Gas Pressure Reducer		GT設	GT Facility
56	6号窒素ガス減圧装置三次側圧力計	56	Г	Tertiary Pressure Gauge for Nitrogen Gas Pressure Reducer		GT設	GT Facility
57	6号主油タンク圧力	57		Main Oil Tank Pressure Gauge		GT設	GT Facility
58	6号潤滑油供給圧力	58		Lubrication Oil Supply Pressure Gauge		GT設	GT Facility
59	6号ミストセパレータ入口圧力	59		Mist Separator Entrance Pressure Gauge		GT設	GT Facility
60	6号ミストセパレータ出口圧力	60	1	Mist Separator Exit Pressure Gauge		火EP(ポンプ)	Fire Protection
61	6号GT水噴射移送ポンプ入口圧力	61		GT Water Jet Transfer Pump Entrance Pressure Gauge		火EP(ポンプ)	Fire Protection
62	6号GT水噴射移送ポンプ出口圧力	62	1	GT Water Jet Transfer Pump Exit Pressure Gauge	1	GT設	GT Facility
63	6号GT水噴射ポンプストレーナ出口圧力	63	-	GT Water Jet Pressure Adjustment Valve Evit Pressure Course	 	GT設 GT部	GT Facility
64	6号GT水噴射ポンプ出口圧力	64		GT Water Jet Pressure Adjustment Valve Exit Pressure Gauge	-	GT設	GT Facility
65	6号水噴射遮断弁出口圧力	65	+	GT Water Jet Pressure Shut-off Valve Exit Pressure Gauge	 	GT設 GT設	GT Facility GT Facility
-	6日小時計次書理飲公山口厂十					i (315∀	GIFACILITY
66	6号水噴射流量調節弁出口圧力 6号冷却水ポンプ(A)出口圧力	66 67		GT Water Jet Pressure Adjustment Valve Exit Pressure Gauge			GT Facility
66 67	6号冷却水ポンプ(A)出口圧力	67		Cooling Water (A) Exit Pressure Gauge		GT設	GT Facility
66 67 68	6号冷却水ポンプ(A)出口圧力 6号冷却水ポンプ(B)出口圧力	67 68		Cooling Water (A) Exit Pressure Gauge Cooling Water (B) Exit Pressure Gauge		GT設 GT設	GT Facility
66 67	6号冷却水ポンプ(A)出口圧力	67		Cooling Water (A) Exit Pressure Gauge		GT設	-

(電気·計装1/5) (Power Facility / Control System 1/5)

機械名称一覧表(電気・計装) Machinery Name List (Power Facility and Control Facility)

PPE-11-0574(添付2)

NO	機器名称	NO		Machinery	略称/Code	手配元	Arrangement
71	ガスタービン設備(つづき)	71	Gas T	urbine Related (continued)			
72	現場圧力計・温度計・レベル(つづき)	72		Field Pressure, Temperature, Level Gauge (Continued)			
73	6号充墳所側潤滑油圧力	73		Oil Feeding Room Side Lubrication Oil Pressure Gauge		火EP(弁)	Fire System
74		74					
75	6号燃料ガスストレーナ差圧	75		Fuel Gas Strainer Differential Pressure Gauge		GT設	GT Facility
76	6号制御用空気圧縮機プレフィルタ差圧	76		Control Air Pressure Pre-filter Differential Pressure Gauge		GT設	GT Facility
77	6号制御用空気圧縮機アフターフィルタ差圧	77		Control Air Pressure After-filter Differential Pressure Gauge		GT設	GT Facility
78	6号潤滑油フィルタ差圧	78		Lubrication Oil Filter Differential Pressure Gauge		GT設	GT Facility
79	6号ミストセパレータ差圧	79		Mist Separator Differential Pressure Gauge		GT設	GT Facility
80	6号潤滑油フィルタ差圧 6号水噴射フィルタ差圧	80 81		Lubrication Oil Filter Differential Pressure Gauge Water Jet Filter Differential Pressure Gauge		GT設 GT設	GT Facility GT Facility
82	6号冷却水ポンプ入口ストレーナ差圧	82		Cooling Water Pump Entrance Strainer Differential Pressure Gauge		GT設	GT Facility
83		83					GT Facility
84	6号燃料ガス圧縮機入口温度	84		Fuel Gas Compressor Entrance Temperature Gauge		火EP(弁)	GT Facility
85	6号主油タンク内温度	85		Main Lubrication Oil Tank Inner Temperature Gauge		GT設	GT Facility
86	6号ミストセパレータ入口温度	86		Mist Separator Entrance Temperature Gauge		GT設	GT Facility
87	6号主油冷却器入口油温度	87		Main Lubrication Oil Cooler Entrance Temperature		GT設	GT Facility
88	6号主油冷却器出口油温度	88		Gauge Main Lubrication Oil Cooler Exit Temperature Gauge		GT設	GT Facility
89	6号GT水噴射ポンプ入口温度	89		GT Water Jet Pump Entrance Temperature Gauge		GT設	GT Facility
90	6号主油冷却器出口冷却水温度	90		Main Lubrication Oil Cooler Water Temperature Gauge		GT設	GT Facility
91		91					GT Facility
92	6号主油タンクレベル	92		Main Lubrication Oil Tank Level		GT設	GT Facility
93	6号冷却水ヘッドタンクレベル	93		Cooling Water Head tank Water Level		GT設	GT Facility
94		94					
95	圧力テスト座	95	Pressu	ure Test Bench			
96	6号燃料ガス遮断弁入口圧力	96		Fuel Gas Shut-off Valve Pressure		火EP(弁)	Fire (valve)
97		97					
98	圧力SW・温度・レベル・差圧・ドラフト	98	Pres	ssure SW, temperature, level, differential pressure, draft			
99	6号CO2消火設備 ガス放出圧力	99		CO2 Fire Protection System Gas Discharge Pressure		GT設/INT用	GT Facility/INT
100	6号制御用空気圧縮機出口圧力	100		Control Air Pressure Exist Pressure Gauge		GT設/警報用	GT Facility/Alarm
101	6号冷却水ヘッドタンクレベル	101		Cooling Water Tank Level		GT設/INT用	GT Facility/INT
103	05/1140/18 10/1920/20 10	103		Cooling Water Farit Ecver		O I BE/II VI /II	OT Fuolity/II41
104	一般発信器·調節計	104	Comm	on Transmitter, Adjustment Measuring Devices			
105	6号プレフィルタ差圧	105		Pre-filter Differential Pressure		GT設/監視用	GT Facility/Survey
106	6号高性能フィルタ差圧	106		High Performance Filter Differential Pressure		GT設/監視用	GT Facility/Survey
107	6号超高性能フィルタ差圧	107		Ultra High Performance Filter Differential Pressure		GT設/監視用	GT Facility/Survey
108		108					
109	6号燃料ガス圧縮機入口圧力	109		Fuel Gas Compressor Entrance Pressure	,	火EP(弁)/監視月	Fire (valve)
110	6号燃料ガス流量出口圧力	110		Fuel Gas Compressor Exit Pressure		GT設/監視用 GT設/監視用	GT Facility/Survey GT Facility/Survey
111	6号燃料ガス遮断弁入口圧力 6号燃料ガス遮断弁出口圧力	112		Fuel Gas Shut-off Valve Entrance Pressure Fuel Gas Shu-off Valve Exit Pressure		GT設/監視用 GT設/制御用	GT Facility/Survey
113	6号燃料ガス流量出口圧力遮断弁出口圧力2	113		Fuel Gas Flow Volume Pressure Shut-off Pressure		GT設/制御用	GT Facility/Survey
114	6号GT空気圧縮機入口圧力(全圧)	114		GT Air Compressor Entrance Pressure (Total Pressure)		GT設/監視用	GT Facility/Survey
115	6号GT空気圧縮機入口圧力(動圧)	115		GT Air Compressor Entrance Pressure (Dynamic Pressure)		GT設/監視用	GT Facility/Survey
116	6号GT空気圧縮機出口圧力1	116		GT Air Compressor Exit Pressure-1		GT設/保護用	GT Facility/Protection
117	6号GT空気圧縮機出口圧力2	117		GT Air Compressor Exit Pressure-2		GT設/保護用	GT Facility/Protection
118	6号GT空気圧縮機出口圧力3	118		GT Air Compressor Exit Pressure-3		GT設/保護用	GT Facility/Protection
119	6号主油ポンプ出口圧力1	119		Main Lubrication Oil Pump Exit Pressure-1		GT設/INT用	GT Facility/INT
120	6号主油ポンプ出口圧力2	120		Main Lubrication Oil Pump Exit Pressure-2		GT設/INT用	GT Facility/INT
121	6号潤滑油圧力1	121		Lubrication Oil Pressure-1		GT設/保護用	GT Facility/Protection
122	6号潤滑油圧力2	122	-	Lubrication Oil Pressure-2		GT設/保護用	GT Facility/Protection
123 124	6号潤滑油圧力3	123 124	-	Lubrication Oil Pressure-3		GT設/保護用	GT Facility/Protection
124	6号制御油圧力1	124		Control Oil Pressure-1		GT設/保護用	GT Facility/Protection
126	6号制御油圧力1	126		Control Oil Pressure-1		GT設/保護用	GT Facility/Protection
127	6号制御油圧力3	127		Control Oil Pressure-3		GT設/保護用	GT Facility/Protection
128	6号燃料ガス遮断用遮断油圧力1	128		Shut-off Oil Pressure for Fuel Gas Shut-off-1		GT設/保護用	GT Facility/Protection
129	6号燃料ガス遮断用遮断油圧力2	129		Shut-off Oil Pressure for Fuel Gas Shut-off-2		GT設/保護用	GT Facility/Protection
130	6号燃料ガス遮断用遮断油圧力3	130		Shut-off Oil Pressure for Fuel Gas Shut-off-3		GT設/保護用	GT Facility/Protection
131	6号GT水噴射ポンプ出口圧力	131		GT Water Jet Pump Exit Pressure		GT設/監視用	GT Facility/Protection
132	6号機冷却水ポンプ出口冷却圧力	132		Cooling Water Exit Pressure		GT設/INT用	GT Facility/INT
133	6号ラジェータ入口冷却水圧力	133		Radiator Entrance Water Pressure		GT設/監視用	GT Facility/Protection
134	6号ラジエータ出口冷却水圧力	134	-	Radiator Exit Water Pressure		GT設/監視用	GT Facility/Protection
135 136	6号主油タンクレベル	135 136		Main Lubrication Oil Tank Level		GT設/INT用	GT Facility/INT
136	ロウエ/四メンソレ・ハル	136		WIGHT EUDITORIOTI OII TATIK LEVEL		OI政/INT用	OT FAUILY/INT
138		138					
139		139					
140		140					
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機械名称一覧表(電気・計装) Machinery Name List (Power Facility and Control Facility)

PPE-11-0574(添付2)

NO	100 DD 77 Th.	LNO	г —	Markham	mb 16 10 I		A
NO 141	機器名称 ガスタービン設備(つづき)	NO 141	Cool	Machinery Furbine Related (continued)	略称/Code	手配元	Arrangement
142	- 般信器・調節計(つづき)	142	Gas	Transmitter, adjustment (continued)			
143	6号燃料ガス流量1	143		Fuel Gas Flow Volume-1		GT設/制御用	GT Facility/Control
144	6号燃料ガス流量2	144		Fuel Gas Flow Volume-2		GT設/制御用	GT Facility/Control
145	6号水噴射流量1	145		Water Jet Flow Volume-1		GT設/監視用	GT Facility/Survey
146	6号水噴射流量2	146		Water Jet Flow Volume-2		GT設/監視用	GT Facility/Survey
	6号NO×O2分析計(NOX)			NOx O2 Analyzer (NOx)			, ,
147	6号NO×O2分析計(O2換算NOX)	147		NOx O2 Analyzer (O2 converting to NOx)		GT設/警報用	GT Facility/Alarm
	6号NO×O2分析計(O2)			NOxO2 Analyzer (O2)			-
148	6号GTコンバートメントガス検知1	148		GT Compartment Gas Detector-1		GT設/警報用	GT Facility/Alarm
149	6号GTコンバートメントガス検知2	149		GT Compartment Gas Detector-2		GT設/警報用	GT Facility/Alarm
150	6号燃料ガスコンパートメントガス検知1	150		Fuel Gas Compartment Detector-1		GT設/警報用	GT Facility/Alarm
151	6号燃料ガスコンパートメントガス検知2	151		Fuel Gas Compartment Detector-2		GT設/警報用	GT Facility/Alarm
152	6号燃料ガス圧縮機エンクロージャガス検知1	152		Fuel Gas Compression Enclosure Gas Detector-1		GT設/警報用	GT Facility/Alarm
153	6号燃料ガス圧縮機エンクロージャガス検知2	153		Fuel Gas Compression Enclosure Gas Detector-2		GT設/警報用	GT Facility/Alarm
154		154					
155	6号燃料ガス遮断弁開度1	155		Fuel Gas Shut-off Valve Opening-1		GT設/制御用	GT Facility/Control
156	6号燃料ガス遮断弁開度2	156		Fuel Gas Shut-off Valve Opening-2		GT設/制御用	GT Facility/Control
157	6号燃料ガス流量調整弁開度1	157		Fuel Gas Flow Volume Adjustment Valve Opening-1		GT設/制御用	GT Facility/Control
158	6号燃料ガス流量調整弁開度2	158	-	Fuel Gas Flow Volume Adjustment Valve Opening-2		GT設/制御用	GT Facility/Control
159	6号GT空気圧縮機入口案内翼開度1	159	 	GT Air Compressor Entrance Guide Vane Opening-1		GT設/保護用	GT Facility/Control
160	6号GT空気圧縮機入口案内翼開度2	160	<u> </u>	GT Air Compressor Entrance Guide Vane Opening-2		GT設/保護用	GT Facility/Control
161	C = 午1 計 平 計 作 計 V	161	\vdash	First Avia Booring Vibration V		CT=0//0 =# cn	CT Facility/Destaction
162	6号第1軸受軸振動X	162	 	First Axle Bearing Vibration-X		GT設/保護用	GT Facility/Protection
163	6号第1軸受軸振動Y	163	\vdash	First Axle Bearing Vibration-Y Second Axle Bearing Vibration-X		GT設/保護用	GT Facility/Protection
164	6号第2軸受軸振動X	164	\vdash			GT設/保護用	GT Facility/Protection
165 166	6号第2軸受軸振動Y 6号GT回転速度1	165 166		Second Axle Bearing Vibration-Y GT Rotating Speed-1		GT設/保護用 GT設/保護用	GT Facility/Protection GT Facility/Protection
167	6号GT回転速度2	167		GT Rotating Speed-2		GT設/保護用	
168	6号GT回転速度2	168		GT Rotating Speed-2 GT Rotating Speed-3		GT設/保護用	GT Facility/Protection GT Facility/Protection
169	6号GT回転速度4	169		GT Rotating Speed-4		GT設/保護用	GT Facility/Protection
170	6号GT回転速度5	170	-	GT Rotating Speed-5		GT設/保護用	GT Facility/Protection
171	6号GT回転速度6	171		GT Rotating Speed-6		GT設/保護用	GT Facility/Protection
172	6号GTキーフェザー	172		GT Key Phaser		GT設/保護用	GT Facility/Protection
173		173				- 1 BAT P(1882) 12	
174		174					
175	温度検出器	175	Temp	erature Detectors			
176	6号GTインナーバレル温度1	176		GT Inner Barrel Temperature-1		GT設/監視用	GT Facility/Survey
177	6号GTインナーバレル温度2	177		GT Inner Barrel Temperature-2		GT設/監視用	GT Facility/Survey
178	6号GT第1段動翼前側外部ホイールスペース温度1	178		GT First Moving Blade Front Side External Wheel Space Temperature-1		GT設/監視用	GT Facility/Survey
179	6号GT第1段動翼前側外部ホイールスペース温度2	179		GT First Moving Blade Front Side External Wheel Space Temperature-2		GT設/監視用	GT Facility/Survey
180	6号GT第2段動翼後側外部ホイールスペース温度1	180		GT Second Moving Blade Back Side External Wheel Space Temperature-1		GT設/監視用	GT Facility/Survey
181	6号GT第2段動翼後側外部ホイールスペース温度2	181		GT Second Moving Blade Back Side External Wheel Space Temperature-2		GT設/監視用	GT Facility/Survey
182	6号GT第3段動翼前側外部ホイールスペース温度1	182		GT Third Moving Blade Front Side External Wheel Space Temperature-1		GT設/監視用	GT Facility/Survey
183	6号GT第3段動翼前側外部ホイールスペース温度2	183		GT Third Moving Blade Front Side External Wheel Space Temperature-2		GT設/監視用	GT Facility/Survey
184	6号GT第4段動翼後側外部ホイールスペース温度1	184		GT Fourth Moving Blade Front Side External Wheel Space Temperature-1		GT設/監視用	GT Facility/Survey
185	6号GT第4段動翼後側外部ホイールスペース温度2	185		GT Fourth Moving Blade Back Side External Wheel Space Temperature-2		GT設/監視用	GT Facility/Survey
186	6号燃料ガス流量計出口温度	186	<u> </u>	Fuel Gas Flow Meter Exit Temperature		GT設/監視用	GT Facility/Survey
187	00 0T# 5 # 7 7 8 # 4	187	-	OT 5 to an 4 Our Towns of the		OT=0.//2 === C	OT 5 - 104 /5 - 1
188	6号GT排気ガス温度1	188	\vdash	GT Exhaust Gas Temperature-1		GT設/保護用	GT Facility/Protection
189 190	6号GT排気ガス温度2 6号GT排気ガス温度3	189 190		GT Exhaust Gas Temperature 3		GT設/保護用	GT Facility/Protection
190	6号GT排気ガス温度3 6号GT排気ガス温度4	190	1	GT Exhaust Gas Temperature-3 GT Exhaust Gas Temperature-4		GT設/保護用 GT設/保護用	GT Facility/Protection GT Facility/Protection
192	6号GT排気ガス温度4 6号GT排気ガス温度5	191	 	GT Exhaust Gas Temperature-4 GT Exhaust Gas Temperature-5		GT設/保護用	GT Facility/Protection
193	6号GT排気ガス温度5 6号GT排気ガス温度6	193	 	GT Exhaust Gas Temperature-5 GT Exhaust Gas Temperature-6		GT設/保護用	GT Facility/Protection
194	6号GT排気ガス温度で 6号GT排気ガス温度7	194	t	GT Exhaust Gas Temperature-7		GT設/保護用	GT Facility/Protection
195	6号GT排気ガス温度7	195	†	GT Exhaust Gas Temperature-7		GT設/保護用	GT Facility/Protection
196	6号GT排気ガス温度9	196		GT Exhaust Gas Temperature-9		GT設/保護用	GT Facility/Protection
197	6号GT排気ガス温度10	197		GT Exhaust Gas Temperature-10		GT設/保護用	GT Facility/Protection
198	6号GT排気ガス温度11	198		GT Exhaust Gas Temperature-11		GT設/保護用	GT Facility/Protection
199	6号GT排気ガス温度12	199		GT Exhaust Gas Temperature-12		GT設/保護用	GT Facility/Protection
200	6号GT排気ガス温度13	200		GT Exhaust Gas Temperature-13		GT設/保護用	GT Facility/Protection
201	6号GT排気ガス温度14	201		GT Exhaust Gas Temperature-14		GT設/保護用	GT Facility/Protection
202	6号GT排気ガス温度15	202		GT Exhaust Gas Temperature-15		GT設/保護用	GT Facility/Protection
203	6号GT排気ガス温度16	203		GT Exhaust Gas Temperature-16		GT設/保護用	GT Facility/Protection
204	6号GT排気ガス温度17	204		GT Exhaust Gas Temperature-17		GT設/保護用	GT Facility/Protection
205	6号GT排気ガス温度18	205	<u> </u>	GT Exhaust Gas Temperature-18		GT設/保護用	GT Facility/Protection
206	6号GTコンバートメント内温度	206	<u> </u>	GT Compartment Internal Temperature		GT設/監視用	GT Facility/Survey
207 208		207	-				
2018		208					
209		209	1				

(電気·計装3/5) (Power and Control Facility -3/5)

機械名称一覧表(電気·計装) Machinery Name List (Power Facility and Control Facility)

PPE-11-0574(添付2)

10			NO					
11					-	略称/Code	手配元	Arrangement
1987年 Mark Dearling Mans Fire Detection - 1		ガスタービン設備(つづき)		Gas T				
1938年後天リア大災時間	_				. ,			
144	-						GT設/保護用	GT Facility/Protection
195 日	-				-		GT設/保護用	GT Facility/Protection
216	-				-		GT設/保護用	GT Facility/Protection
986TT2V/-FV-AV共変検知3					-		GT設/保護用	GT Facility/Protection
5月歳							GT設/保護用	GT Facility/Protection
291				-			GT設/保護用 GT設/保護用	GT Facility/Protection GT Facility/Protection
50日 日本野村大工の一下シー外投物製造 22日 Dear Compartment Fire Detector-3 GT Compartment Fire Detector-3 GT Compartment Fire Detector-3 GT Compartment Fire Detector-3 GT Compartment Fire Detector-2 GT Compartment Fire Detector-3 GT Compartment Fire Detector-4 GT Compartment Fire Detector-4 GT Compartment Fire Detector-4 GT Compartment Fire Detector-4 GT Compartment Fire Detector GT	-						GT設/保護用	GT Facility/Protection
221							GT設/保護用	GT Facility/Protection
222 68日ードンバーシンク火災検知2					-		GT設/保護用	GT Facility/Protection
282 1.0 and Compartment Fire Detector-3 1973							GT設/保護用	GT Facility/Protection
225 6号6T空生圧縮限入口温度計 225 GT Air Compressor Entrance Temperature-1 GT 206 6号6T空生圧縮限入口温度2 226 GT Air Compressor Entrance Temperature-2 GT 30 6号6T空生圧縮限入口温度3 227 GT Air Compressor Entrance Temperature-2 GT 30 6号6T空生圧縮限力口温度2 228 GT Air Compressor Entrance Temperature-2 GT 30 6号6T空生圧縮限力口温度2 229 GT Air Compressor Entrance Temperature-3 GT 31 6号7空生圧縮限力口温度2 229 GT Air Compressor Entrance Temperature-2 GT 30 6号4E7/20厘 230 6号4E7/20厘 230 694E7/20厘 230 694E7/20厘 230 694E7/20厘 230 694E7/20厘 231 6号2当条分部第出口源常油温度2 232 Main Cooling Water Exit Lubrication Oil Temperature-2 GT 31 6号2当条分部第出口源常油温度3 233 Main Cooling Water Exit Lubrication Oil Temperature-3 GT 31 6号2当条分部第出口源常油温度3 234 First Aix Bearing Drain Oil Temperature-3 GT 31 6号3年受別油温度 235 Second Aix Bearing Drain Oil Temperature GT 32 6号3年受別油温度 236 6号3年受別油温度 237 6号3年受別油温度 238 Aix Bearing Drain Oil Temperature GT 32 6号3年受別油温度 239 Aix Bearing Drain Oil Temperature GT 32 Aix Bearing Drain Oil Temperatur							GT設/保護用	GT Facility/Protection
255 GFAIC 全国保護人日恵宝 225 GTAIC Compressor Entrance Temperature GTI		0.52 122 1727 200 (2740			2544 Comparanona i no Botostor C		3. IX/ (A IX/)	OT Fadility/Frotoction
266 日子で安紅屋機入日湯度2		6号GT空気圧縮機入口温度1			GT Air Compressor Entrance Temperature-1		GT設/保護用	GT Facility/Protection
277							GT設/保護用	GT Facility/Protection
288			227		GT Air Compressor Entrance Temperature-3		GT設/保護用	GT Facility/Protection
230 6号生治タンク温度							GT設/保護用	GT Facility/Protection
230			229				GT設/保護用	GT Facility/Protection
231 6号主治冷却器出口飛清油温度1 231 Main Cooling Water Exit Lubrication Oil Temperature-1 GT3			230				GT設/INT用	GT Facility/INT
232 6号主油冷却器出口潤滑油温度2 232 Main Cooling Water Exit Lubrication Oil Temperature-2 GT			004		·			
233							GT設/制御用	GT Facility/Control
234 6号第1軸受排油温度							GT設/制御用	GT Facility/Control
Second Axle Bearing Drain Oil Temperature	Į	6号主油冷却器出口潤滑油温度3	233	L	Main Cooling Water Exit Lubrication Oil Temperature-3		GT設/制御用	GT Facility/Control
Second Avle Bearing Drain Oil Temperature	Į	6号第1軸受排油温度	234		First Axle Bearing Drain Oil Temperature		GT設/監視用	GT Facility/Survey
237 6号GT減速機ギア入力輪側軸受排油温度(GT側) 238 GT Speed Reducer Gear Intet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Cear Intet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Cear Intet-side Axle Bearing Drain Oil Temperature (GEN side) GT Speed Reducer Cear Intet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Drain Oil Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Vallet Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Vallet Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Vallet Temperature (GT side) GT Speed Reducer Gear Outlet-side Axle Bearing Vallet Vallet Speed Reducer Gear Outlet Speed Reducer Gear Outlet Speed Reducer Gear Outlet Speed Reducer Gear Outlet Speed Reducer		6号第2軸受排油温度	235		Second Axle Bearing Drain Oil Temperature		GT設/監視用	GT Facility/Survey
237 内型は 大学 日本 19 237 日本 238 日本 238 日本 238 日本 238 日本 238 日本 239 日本 23		6号スラウト軸受排油温度	236		Axle Bearing Drain Oil Temperature		GT設/監視用	GT Facility/Survey
238 6号G1減速機ギア出力輻側軸受排油温度(GEN側) 239 239 240		6号GT減速機ギア入力軸側軸受排油温度(GT側)	237				GT設/監視用	GT Facility/Survey
29		6号GT減速機ギア入力軸側軸受排油温度(GEN側)	238				GT設/監視用	GT Facility/Survey
240 6号令日減乏後年子田力韓飼育受併出温度(GEN南) 240 Coling Water Pump Outlet Cooling Water Temperature GT 6号令ガルボンブ出口冷却水温度 241 Cooling Water Pump Outlet Cooling Water Temperature GT 243 6号ラジエータ丸口冷却水温度 244 245 245 245 246 Radiator Outlet Cooling Water Temperature GT 246 流量検出器 247 Fuel Gas Flow Volume Detector 247 6号紫料ガ、流量 248 Water Jet Flow Volume 249 6号水噴射流量2 249 Water Jet Flow Volume-1 249 6号水噴射流量2 249 Water Jet Flow Volume-2 250 251 25		6号GT減速機ギア出力軸側軸受排油温度(GT側)	239				GT設/監視用	GT Facility/Survey
242 6号ラジエータ入口冷却水音度		6号GT減速機ギア出力軸側軸受排油温度(GEN側)	240				GT設/監視用	GT Facility/Survey
243 6号ラジエータ出口冷却水温度							GT設/INT用	GT Facility/INT
244							GT設/監視用	GT Facility/Survey
245 246 流量検出器		6号ラジエータ出口冷却水温度			Radiator Outlet Cooling Water Temperature		GT設/監視用	GT Facility/Survey
246 流量検出器								
247 6号燃料ガス流量 247 Fuel Gas Flow Volume 248 6号水噴射流量1 248 Water Jet Flow Volume-1 249 6号水噴射流量2 249 Water Jet Flow Volume-2 250 250 250 251 251 251 251 251 251 252 信号分配器・変換器・モニタSW等中間計器 252 Signal Distribution Panel, Converter, Monitor SW etc. 253 6号GT第1軸受振動Xドライバ 253 GT First Axle Bearing Vibration X Driver 254 6号GT第1軸受振動Xドライバ 255 GT Second Axle Bearing Vibration X Driver 256 6号GT第2軸受振動Xドライバ 255 GT Second Axle Bearing Vibration X Driver 256 6号GT第2軸受振動Xドライバ 257 258 259 259 259 259 259 259 260 JಃットSW 260 JಃットSW 260 JಃットSW 261 6号CO2消火設備閉止弁全閉 261 CO2 Fire Distinguishing System Shut-off Valve Full Open 欠		汝是於山思		Flow \	Volume Detector			
248 6号水噴射流量1 248 Water Jet Flow Volume-1 249 6号水噴射流量2 249 Water Jet Flow Volume-2 250 250 251 251 251 251 251 251 252 信号分配器・変換器・モニタSW等中間計器 252 Signal Distribution Panel, Converter, Monitor SW etc. 253 6号GT第1軸受振動Xドライバ 253 GT First Axle Bearing Vibration X Driver 254 6号GT第1軸受振動Xドライバ 255 GT Second Axle Bearing Vibration Y Driver 256 6号GT第2軸受振動Xドライバ 256 GT Second Axle Bearing Vibration X Driver 257 6号GT第2軸受振動Xドライバ 256 GT Second Axle Bearing Vibration Y Driver 257 6号GT第2軸受振動Xドライバ 257 258 258 259 259 259 259 259 259 259 260 UṣットSW 260 Limit Switch 261 6号CO2消火設備閉止弁全閉 261 CO2 Fire Distinguishing System Shut-off Valve Full Open 262 6号CO2消火設備閉止弁全閉 263 Fuel Gas Receiving Shut-off Valve Full Close 264 6号燃料ガス受入遮断弁全閉 265 Starter Crutch Engagement 266 6号GTP=ニング装置クラッチ啮合い 266 6号GTP=ニング装置クラッチ啮合い 266 GT Turning Device Crutch Engagement 267 6号GTP=ニング装置クラッチでは 268 GT Turning Device Crutch Hand Turbine Position 268 6号GT空気圧縮機6段プリード弁全開 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 268 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full Open 269 GT Air Compressor Sixth Bleed Valve Full				1 IOW			GT設	GT Facility
249 6号水噴射流量2 249 Water Jet Flow Volume-2 250 250 251 251 251 251 251 251 252 252 253 253 253 253 253 254 255 255 256 257 255 257 258 259 250 2							GT設	GT Facility
250 251 250 251 251 251 251 251 252 252 253 253 253 253 253 253 253 253 253 253 254 255 253 25							GT設	GT Facility
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269 6号GT空気圧縮機13段プリード弁全開 269 GT Air Compressor Sixth Bleed Valve Full Close	4			<u> </u>			GT設	GT Facility
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274 電気弁・電磁駆動装置 274 Electric Control Valve/Electric Magnetic Driving Device			_	-	Electric Control Valve/Electric Magnetic Driving Device			1
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